

**DRAFT Data Assessment Team (DAT) Conference Call Notes**  
**01/14/2016 at 11:00 a.m.**

Participants: Barb Byrne (NMFS), Geir Aasen (DFW), Rhiannon Mulligan, Dan Yamanaka, Craig Anderson and Loi Tran (DWR) Jon Speegle, and Josh Gruber (FWS), RG Fernando, Owen Lu, Dave Fullerton (MWD), Lucinda Shih (CCWD)

**Sacramento River Fish Monitoring** update provided by Rhiannon Mulligan (DWR):

<b>Preliminary Rotary Screw Trap (RST) Report</b>				
<b>Species*</b>	<b>FWS Red Bluff Diversion Dam RST (Estimated Passage)</b>	<b>Glenn-Colusa Irrigation District (GCID) RST (Catch)</b>	<b>DFW Tisdale Weir RST (Catch)</b>	<b>DFW Knights Landing RST (Catch)</b>
<b>Date</b>	<b>01/01/2016- 01/14/2016</b>	<b>01/12/16-01/13/16</b>	<b>01/07/2016- 01/13/2016</b>	<b>01/07/2016- 01/13/2016</b>
CHNF	1,728,427	371	1,202	3,996
CHNLF	855	0	0	0
CHNW	2,953	3	2	9
CHNS	4,629	0	3	34
Ad-Clipped CHN	Not Reported	46	0	0
SH	1,500	0	0	0
Ad-Clipped SH	Not Reported	46	0	3
GST	Not Reported	0	Not Reported	Not Reported
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, GST= Green Sturgeon. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.				

RBDD: the next bi-weekly report was sent out on 1/14 and added to the Sacramento River Fish Monitoring Report. No sampling took place on January 1, 2, 6, 7, and 14<sup>th</sup>.

Tisdale: cones modified to 50% catch since 1/7/2016

GCID: the rotary screw trap was lowered 1/11/2016 and 9:00am.

Graphical summaries of the monitoring data collected at the Sacramento River and at other locations can be found at <http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm>. In addition, the biweekly passage reports of juvenile salmonids sampled at the Red Bluff Diversion Dam are available at [http://www.fws.gov/redbluff/rbdd\\_biweekly.aspx](http://www.fws.gov/redbluff/rbdd_biweekly.aspx).

**Hatchery update:** update added to the DAT notes by Rhiannon Mulligan (DWR):

The last spring run surrogate release group is to be released January 12, 2016 at Battle Creek at Coleman National fish hatchery. Approximately 67,000 brood year 2015 late-fall Chinook are all CWT tagged. The purpose of this release is to provide insight into the migratory behavior of yearling spring Chinook salmon emigrating from the upper Sacramento River Tributaries.

**Delta Fish Monitoring** update provided by Jon Speegle (FWS) via DAT reflector:

Preliminary FWS Trawl and Seine Catch Report from 01/03/16 to 01/09/16				
Species*	Beach Seines	Mossdale Trawl**	Sacramento Trawl	Chipps Island Trawl
CHNF	319		15	
CHNLF	0			2
CHNW	1		1	
CHNS	8			
Ad-Clipped CHN				2
SH				
Ad-Clipped SH				
DSM				
LFS				
SPLT				

\*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, DSM=Delta Smelt, LFS=Longfin Smelt, SPLT = Splittail. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.

Jersey/Prisoners Point Trawls, 19 DSM & no other species of management concern\*\*No species of management concern for this sampling period

Information about the Delta fish monitoring data from FWS can be found at <http://www.fws.gov/stockton/jfmp/>.

**Salvage Monitoring update** provided by Geir Aasen (DFW):

Preliminary DFW Salvage Report for Salmonids from 01/04/16 to 01/10/16								
Species	Central Valley Project (CVP)				State Water Project (SWP)			
	Adipose-Fin Clipped (Ad-Clipped)		Non-Adipose Fin Clipped (Non-Clipped)		Adipose-Fin Clipped (Ad-Clipped)		Non-Adipose Fin Clipped (Non-Clipped)	
	Salvage	Loss	Salvage	Loss	Salvage	Loss	Salvage	Loss
CHNF								
<b>Total to Date</b>					1	4	4	18
CHNLF					14	55		
<b>Total to Date</b>			8	7	55	244	36	159
CHNW	8	6			13	58		
<b>Total to Date</b>	8	6			37	166	4	17
CHNS								
<b>Total to Date</b>								
CHNU								
<b>Total to Date</b>								
SH								

<b>Total to Date</b>								
<p>Notes: Since Sunday there have been some clipped Chinook at CVP.  There have been a few sub adult Chinook too large to be given the race according to the length table. Sub adults are salvaged occasionally at the facilities.</p> <p>-Chinook race based on length (Delta model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS=Spring run, CHNU= Unknown race (Chinook greater than the length-at-date criteria or fork length not measured), SH =Steelhead.</p> <p>-Salvage and loss estimates are rounded to the nearest whole fish.</p> <p>-Documentation on how to calculate salvage and Chinook loss can be found at <a href="ftp://ftp.delta.dfg.ca.gov/salvage/Salmon%20Loss%20Estimation/">ftp://ftp.delta.dfg.ca.gov/salvage/Salmon%20Loss%20Estimation/</a>.</p> <p>-Steelhead loss: SWP steelhead loss = salvage x 4.33 and CVP steelhead loss = salvage x 0.68.</p> <p>-Total to date is the total since 10/1/14 (the start of water year 2015).</p> <p>-Data subject to revision.</p>								

Preliminary DFW Salvage Report for Smelt and Other Species from 01/04/16 to 01/10/16				
	CVP		SWP	
Species	Salvage	Total to Date	Salvage	Total to Date
DSM				
LFS				
SPLT	2	4		4
GST				
WST				
<p>Notes:</p> <p>-DSM=Delta Smelt, LFS=Longfin Smelt, SPLT=Splittail, GST=Green Sturgeon, WST=White Sturgeon.</p> <p>-Salvage estimates are rounded to the nearest whole fish.</p> <p>-Total to date is the total since 10/1/13 (the start of water year 2014).</p> <p>-Data subject to revision.</p>				

**Smelt Monitoring** Update provided by Trishelle Morris via e-mail (DFW):

These results are preliminary from last week's Smelt Larva survey.

Please see attached smelt catch table for Smelt Larva Survey 1. Processing is ongoing. No Delta Smelt have yet been caught during this survey. The webpage has been updated (<https://www.wildlife.ca.gov/Conservation/Delta/Smelt-Larva-Survey>)

**Smelt Working Group** Update provided by Leigh Bartoo via e-mail (FWS):

The Working Group reviewed current Delta Smelt distribution, salvage data, and t Delta conditions. The Working Group considers the proposed current operations to carry a high risk of Delta Smelt entrainment at the State and Federal Projects.

The Working Group has been reviewing the guidance in the 2008 BiOp for Action 1 and Action 2 under the RPA Component 1, both of which are designed to protect pre-spawn adult Delta Smelt from entrainment. Action 1 provides protection of adult Delta Smelt during the "initial pulse of (the) pre-spawning migration" (p 331). "Action 2 reflects the period when OMR prescriptions for pre-spawning

adult delta smelt are still required to protect parental stock" once "the main pulse of fish migration has occurred and adults are holding more tightly to their selected spawning areas" (p 355).

**Though neither the hard turbidity trigger (12NTU at PPT, HOL and VCU), nor the hard salvage trigger (3 days of salvage of Delta Smelt) has been met, the DWR turbidity transect survey and FWS early warning survey indicate that fish movement has occurred, and entrainment protection actions consistent with the intent of Action 1 are needed to protect pre-spawning Delta Smelt adults.**

The Smelt Working Group notes and FWS determinations are posted at [http://www.fws.gov/sfbaydelta/cvp-swp/smelt\\_working\\_group.cfm](http://www.fws.gov/sfbaydelta/cvp-swp/smelt_working_group.cfm).

### **Delta Operations for Salmonids and Sturgeon (DOSS) Working Group** Update provided by Barb Byrne (NMFS)

#### **Follow-up from last week:**

**Question:** What is the estimate of juvenile winter-run survival this year?

**Answer:** Egg-to-fry survival estimates based on the Red Bluff Diversion Dam rotary screw trap data through 12/31/2015 indicate a preliminary egg-to-fry survival rate of 4.2 % for Brood Year 2015 winter-run Chinook. This compares to 5.9% for Brood Year 2014, and 15.1% for Brood Year 2013. These egg-to-fry survival estimates (which do not include in-river mortality between Red Bluff and the Delta, or in the Delta) are calculated as:

$$\frac{\text{Fry-equivalent WR passage at RBDD}}{\text{Estimated Female WR spawners} \times \text{Average Fecundity}}$$

Details on methods are described in the reports available at [http://www.fws.gov/redbluff/MSJM%20Reports/RST/rbdd\\_jsmp\\_annual.html](http://www.fws.gov/redbluff/MSJM%20Reports/RST/rbdd_jsmp_annual.html).

#### **DOSS update for DAT:**

- DOSS met on 1/12/16, and provided no advice.
- DOSS notes will be posted later this week at: [http://www.westcoast.fisheries.noaa.gov/central\\_valley/water\\_operations/ocapwy2016.html](http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2016.html)
- **RPA Implementation**
  - IV.1.2 (DCC ops): DCC gates have been closed since 12/15/15
  - IV.2.3 (OMR management based on salvage triggers):
    - On Wednesday, 1/6/16, NMFS informed WOMT that, based on the genetic results "...the CVP and SWP do not need to continue to operate to the action response of the first stage trigger in RPA Action IV.2.3, but rather, can revert back to an OMR no more negative than - 5,000 cfs."
    - No triggers exceeded over past week.
- **Fish Monitoring -- RIVER & DELTA monitoring**
  - Big pulse of Chinook catch with flow/turbidity increases late last week and over weekend, but few WR seen in river monitoring.
  - **DOSS estimates that 75-90% of the WR population are in the Delta; 10-25% still upstream; and 0-1% have exited the Delta** -- a 50%+ "downstream" shift in the in-Delta fraction since last week.
  - **DOSS estimates that ~30% of the young-of-year (YOY) spring-run (SR) population are in the Delta; 70% still upstream; and 0-1% have exited the Delta** -- a 15% "downstream" shift in the in-Delta fraction since last week.
- **Entrainment risks (primarily to Winter-run and Spring-run Chinook)**

Interior Delta Entrainment Risk for listed species -- Overall risk = Medium to High			
Exposure Risk	Routing Risk		
	Low	Medium	High
Low			
Medium			

High	X	X	
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CVP/SWP Facilities Entrainment Risk for listed species --Overall risk = Medium to High			
Exposure Risk	OMR/Export Risk		
	Low	Medium	High
Low			
Medium		X	X
High			

Full DOSS notes posted at:

[http://www.westcoast.fisheries.noaa.gov/central\\_valley/water\\_operations/ocapwy2016.html](http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2016.html)

**Operations** update provided by Loi Tran (DWR)

Preliminary Summary for 01/14/2016			
SWP		CVP	
Clifton Court Inflow (cfs)	2,200*	Jones Pumping Plant (cfs)	3,600**
SWP San Luis Reservoir Share (TAF) as of Midnight	447	CVP San Luis Reservoir Share (TAF) as of Midnight	102
San Luis Reservoir Total (TAF) as of Midnight	549	American – Nimbus Reservoir Releases (cfs)	500
Feather – Oroville Reservoir Releases (cfs)	950	Sacramento – Keswick Reservoir Releases (cfs)	3,250
		Stanislaus-Goodwin Reservoir Releases (cfs)	
DELTA OPERATIONS			
Outflow (cfs)	~10,900	Delta Cross Channel (DCC) Gates	closed
Total Delta Inflow (cfs)	~17,778	1 day average (cfs)	
X2 (km)	>81	3 day average (cfs)	
Export/Inflow (%)	% (14-day average)	14 day average (Cfs)	

Delta conditions: excess

Controlling factor: OMR

\*1600 cfs by tomorrow to target -3500 OMR.

\*\*going down 2 units tomorrow to target 2,000 cfs.

A summary of daily operations can also be viewed at

<http://www.water.ca.gov/swp/operationscontrol/docs/delta/deltaops.pdf>.

**Next Conference Call:**

January 21, 2016 at 11am

Next Calfed OPS call: January 27, 2016 1pm-3:30pm (916) 574-2556

Final DAT notes can be viewed at

<http://www.water.ca.gov/swp/operationscontrol/calfed/calfeddat.cfm>